

# STD 20/20: A National Perspective on STD Epidemics

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**WE ENVISION A NATION  
WITHOUT STDS**

Leading. Advocating. Educating. Connecting.

# Outline

- 2016 STD Surveillance Data
  - National
  - Statewide
- Strategies for STD prevention
  - Preventing infection
  - Finding and treating cases
  - Partner management strategies



# What TV show do you secretly watch?



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# What do you do for a living?

Health Educator

Medical Provider (MD,  
RN, NP, MA, etc)

Field Epidemiologist

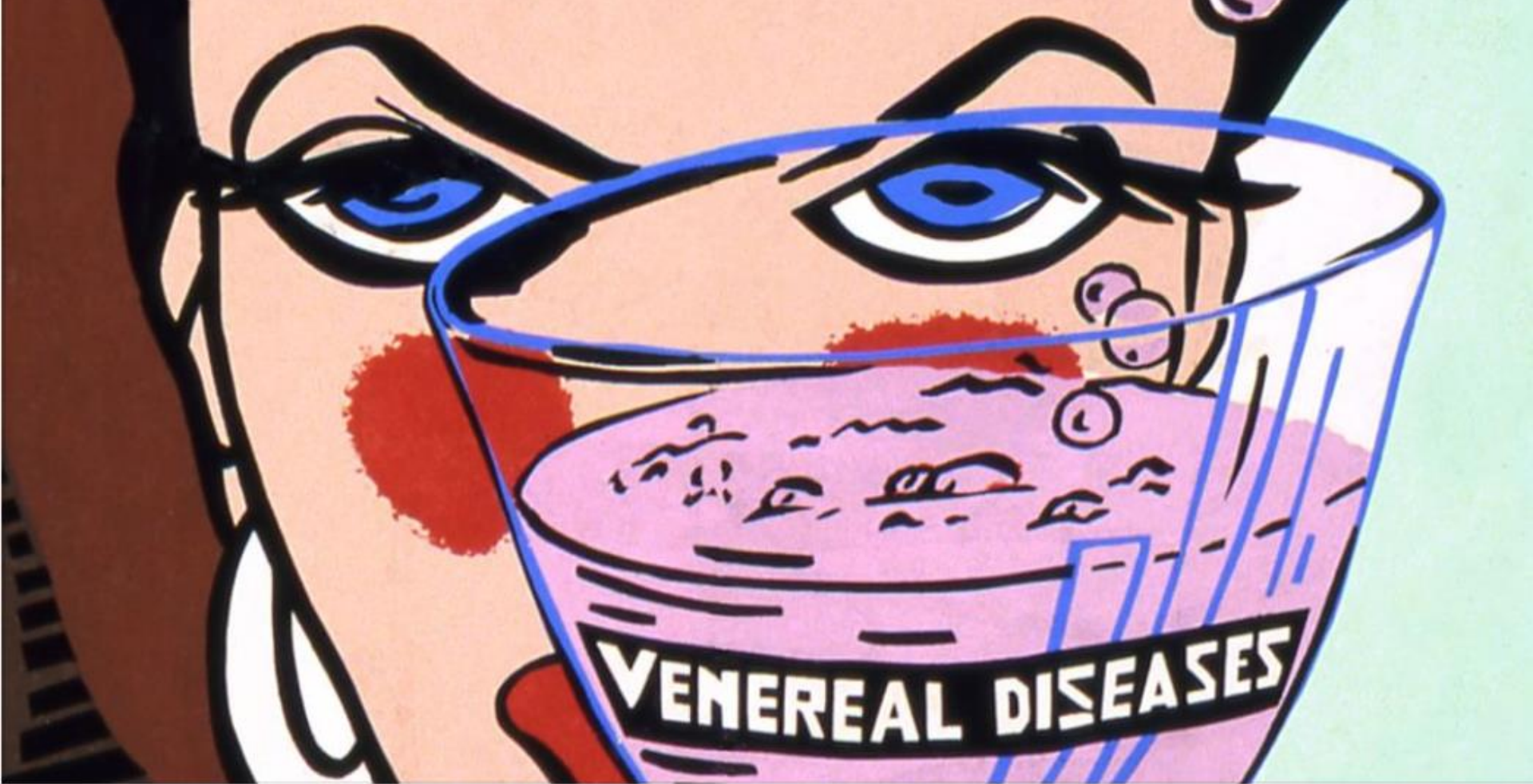
Health Department  
Administrator

CBO Administrator

None of these. I feel  
so left out.

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## New STD cases hit record high in US, CDC says

In 2016, Americans were infected with more than 2 milli...

cnn.com

<http://www.cnn.com/2017/09/26/health/std-highest-ever-reported-cdc/index.html>





# What is the #1 reportable infection in the US?



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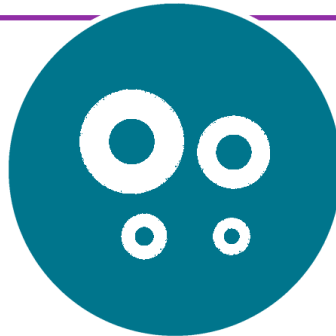
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# The STATE of STDs in the United States



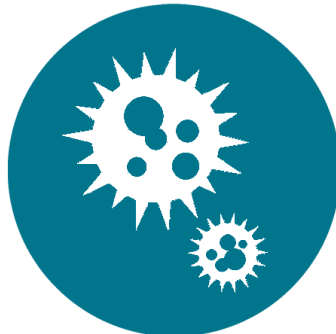
in 2016

STDs TIGHTEN THEIR GRIP  
ON THE NATION'S HEALTH  
AS RATES INCREASE FOR A  
THIRD YEAR



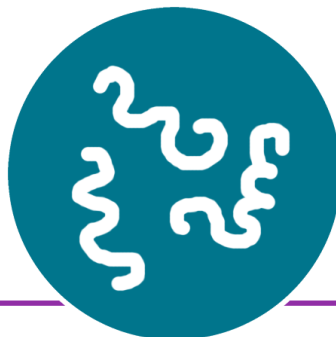
**1.59 million**  
CASES OF CHLAMYDIA

4.7% increase since 2015



**468,514**  
CASES OF GONORRHEA

18.5% increase since 2015



**27,814**  
CASES OF SYPHILIS

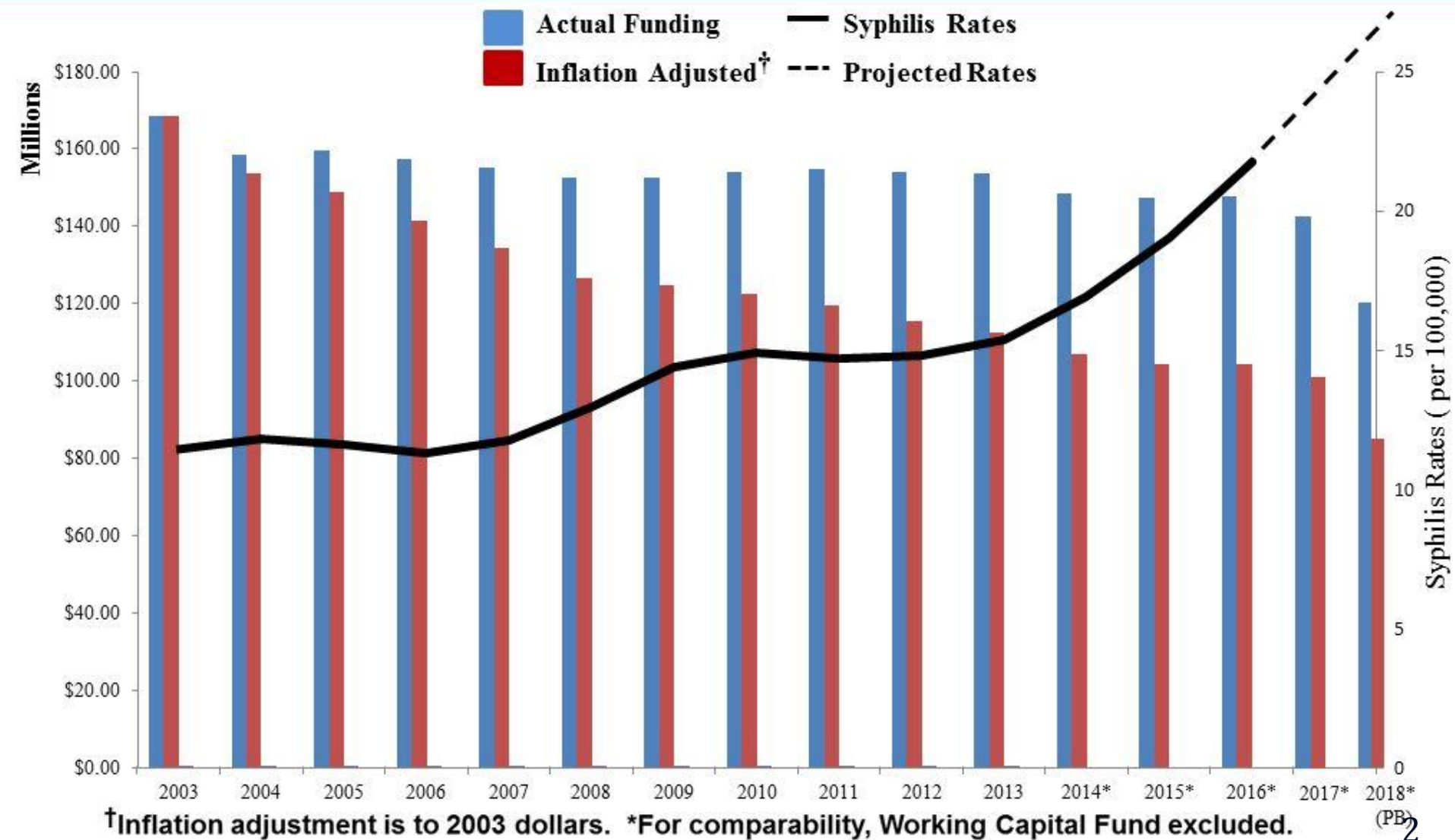
17.6% increase since 2015

LEARN MORE AT: [www.cdc.gov/std/](http://www.cdc.gov/std/)



# Annual CDC STD Prevention Budget, FY 2003– President's Proposed Budget (PB) FY 2018

*50% drop in purchasing power since 2003†*



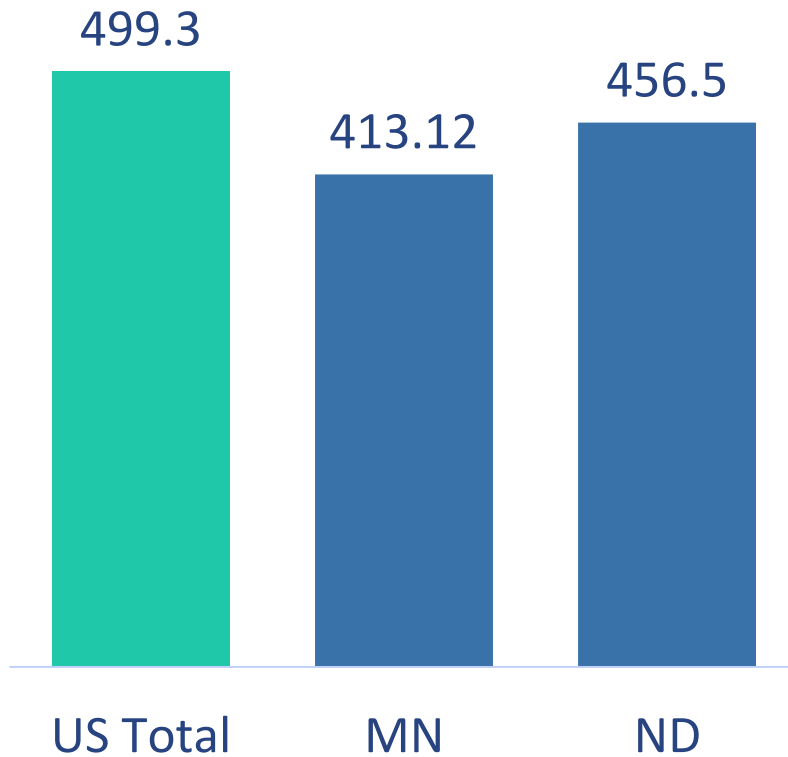
Inflation adjustment used average of two components of the consumer price index (CPI): "medical care" and "all items"

# CHLAMYDIA



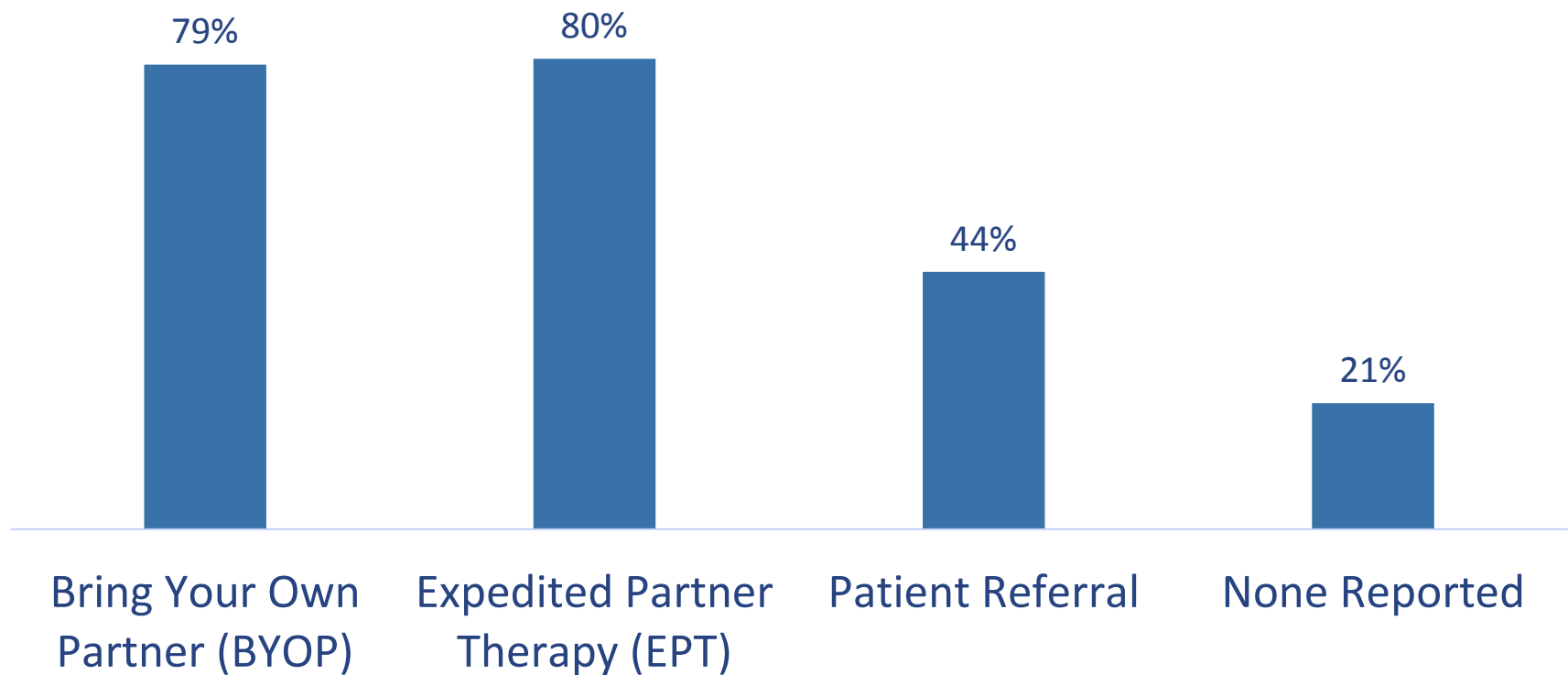
# Chlamydia Infections, 2016

Rate per 100,000 population



	# Cases	Rank
US Total	1,598,354	-
MN	22,685	39
ND	3,455	31

# Percent of Partners Treated by Strategy Among Women Diagnosed with Chlamydia in Eight Family Planning Clinic Settings in California



# Summary of Randomized Control Trials for Expedited Partner Therapy

Trial	Setting and Study Population	Study Design	Intervention and Control	Persistent/Recurrent Infection Rate
<b>CDC Project 455, B2</b>  Schillinger et al. <i>Sex Transm Dis</i> 2003;30:49-56	<ul style="list-style-type: none"> <li>Multi-center (6 cities)</li> <li>1996- 2000</li> <li>N=1,787, 81% followed</li> <li>Women age 14-34</li> <li>Primary care, FP, teen, STD, ED</li> </ul>	<ul style="list-style-type: none"> <li><b>Uncomplicated CT</b> (without GC)</li> <li>1.0g azithromycin DOT</li> <li>21 days – 3 months</li> <li>Urine PCR/LCR</li> </ul>	<ul style="list-style-type: none"> <li>PDPT to maximum 4 partners</li> <li>Control = patient-referral (verbal and written)</li> </ul>	<ul style="list-style-type: none"> <li>Control 108/726 (14.9%)</li> <li>EPT 87/728 (12.0%)</li> </ul> <p><b>OR = 0.80 (0.62 – 1.05)</b> <sup>2</sup> = 2.67, p = .102</p>
<b>Seattle</b>  Golden et al. <i>NEJM</i> 2005;352:676-685.	<ul style="list-style-type: none"> <li>Seattle-King Co., WA</li> <li>1998 - 2003</li> <li>N=2,751, 68% follow-up</li> <li>Male 23%, Female 77%, age ≥14 yr (mean 23 yr)</li> <li>All reporting sites: STD, FP, private, ED</li> </ul>	<ul style="list-style-type: none"> <li><b>Uncomplicated CT</b> (N=2162), <b>GC</b> (450), or <b>both</b> (139)</li> <li>AZM 1.0 g ± CFX 400 mg for CT, GC</li> <li>Follow-up 3-19 wk</li> <li>Urine NAAT (LCR or TMA)</li> </ul>	<ul style="list-style-type: none"> <li>Patient or partner pick-up of drug at 1 of 12 pharmacies</li> <li>Control = patient-referral</li> <li>DIS assistance (both arms) if patient unable/unwilling to contact partner</li> </ul>	<ul style="list-style-type: none"> <li>Control 121/931 (13.0%)</li> <li>EPT 92/929 (9.9%)</li> </ul> <p><b>RR = 0.76 (0.59 – 0.98)</b> <sup>2</sup> = 4.39, p = .04</p> <p>See supplemental tables for separate CT/GC outcomes</p>
<b>New Orleans Urethritis Trial</b>  Kissinger et al. <i>Clin Inf Dis</i> 2005;41:623-9.	<ul style="list-style-type: none"> <li>New Orleans, LA</li> <li>2002 - 2004</li> <li>N=629, 80% behavioral FU, 30% biological FU</li> <li>Male age ≥16, median 24 yr</li> <li>STD clinic</li> </ul>	<ul style="list-style-type: none"> <li><b>Symptomatic urethritis</b> (61% GC, 21% CT, 6% both)</li> <li>AZM 1.0 g ± CFX 400mg or cipro 500 mg</li> <li>GenProbe(enrollment) Urine PCR (follow-up)</li> </ul>	<ul style="list-style-type: none"> <li>PDPT</li> <li>Control = patient-referral with brief counseling</li> <li>Third arm “Booklet Referral”</li> </ul>	<ul style="list-style-type: none"> <li>Control 35/82 (43%)</li> <li>EPT 20/87 (23%)</li> <li>Booklet 16/112 (14%)</li> </ul> <p><b>EPT v control:</b> <b>OR = 0.38 (0.19 – 0.74)</b></p> <p><b>BEPR v control:</b> <b>OR = 0.22 (0.11 – 0.44)</b></p>

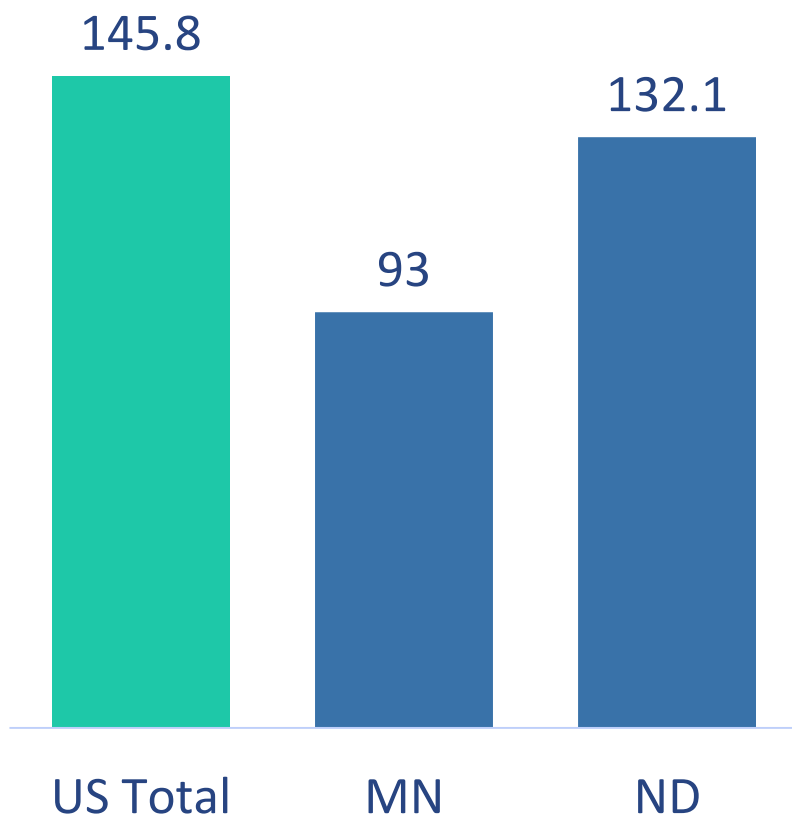
# GONORRHEA



# Gonorrhea Infections, 2016



Rate per 100,000 population



	# Cases	Rank
US Total	468,514	-
MN	5,104	37
ND	1,000	26

Rank based on rates per 100,000 population. [cdc.gov/std/stats16/default.htm](https://www.cdc.gov/std/stats16/default.htm)



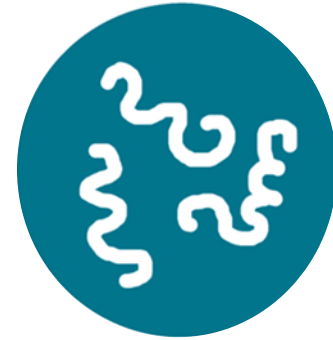
A microscopic image showing numerous small, dark, spherical bacteria, likely Neisseria gonorrhoeae, scattered across a light-colored background. The bacteria are arranged in pairs and small clusters, with some showing distinct capsular structures.

# GONORRHEA

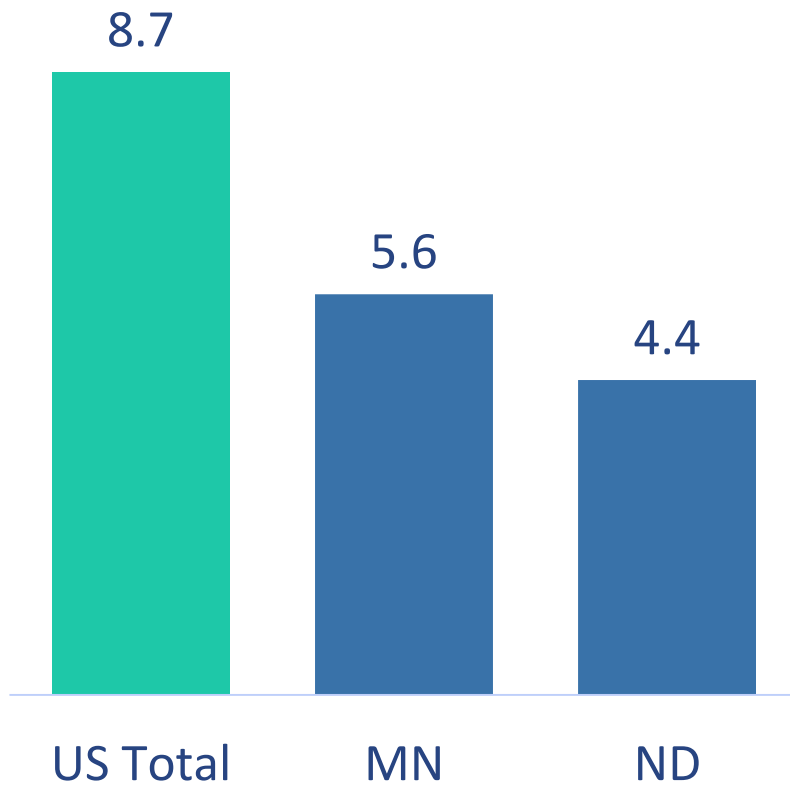
# SYPHILIS



# Primary & Secondary Syphilis Infections, 2016



Rate per 100,000 population



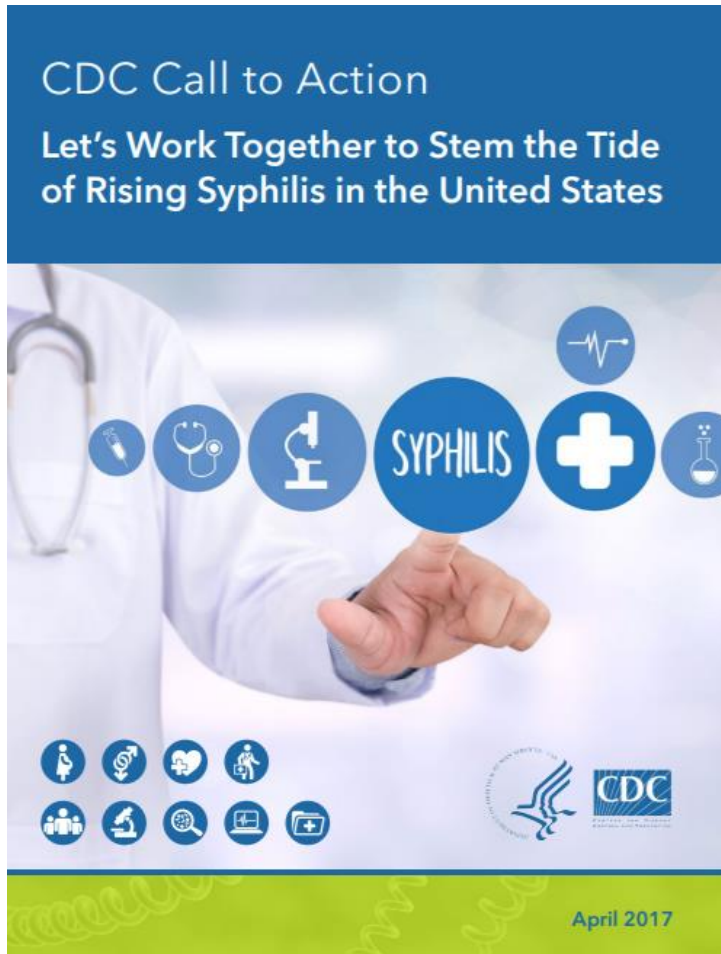
	# Cases	Rank
US Total	24,814	-
MN	306	27
ND	2.4	33

# Ocular Syphilis Increase

Ocular syphilis: a manifestation of neurosyphilis affecting the eyes, which can occur at any stage of syphilis

- CDC issued a clinical advisory for ocular syphilis on 4/3/2015
- Majority of cases are among HIV-infected MSM
- 8 jurisdictions have reviewed their surveillance data, and have identified 382 cases from 2014 and 2015
- Several cases have resulted in significant outcomes including blindness

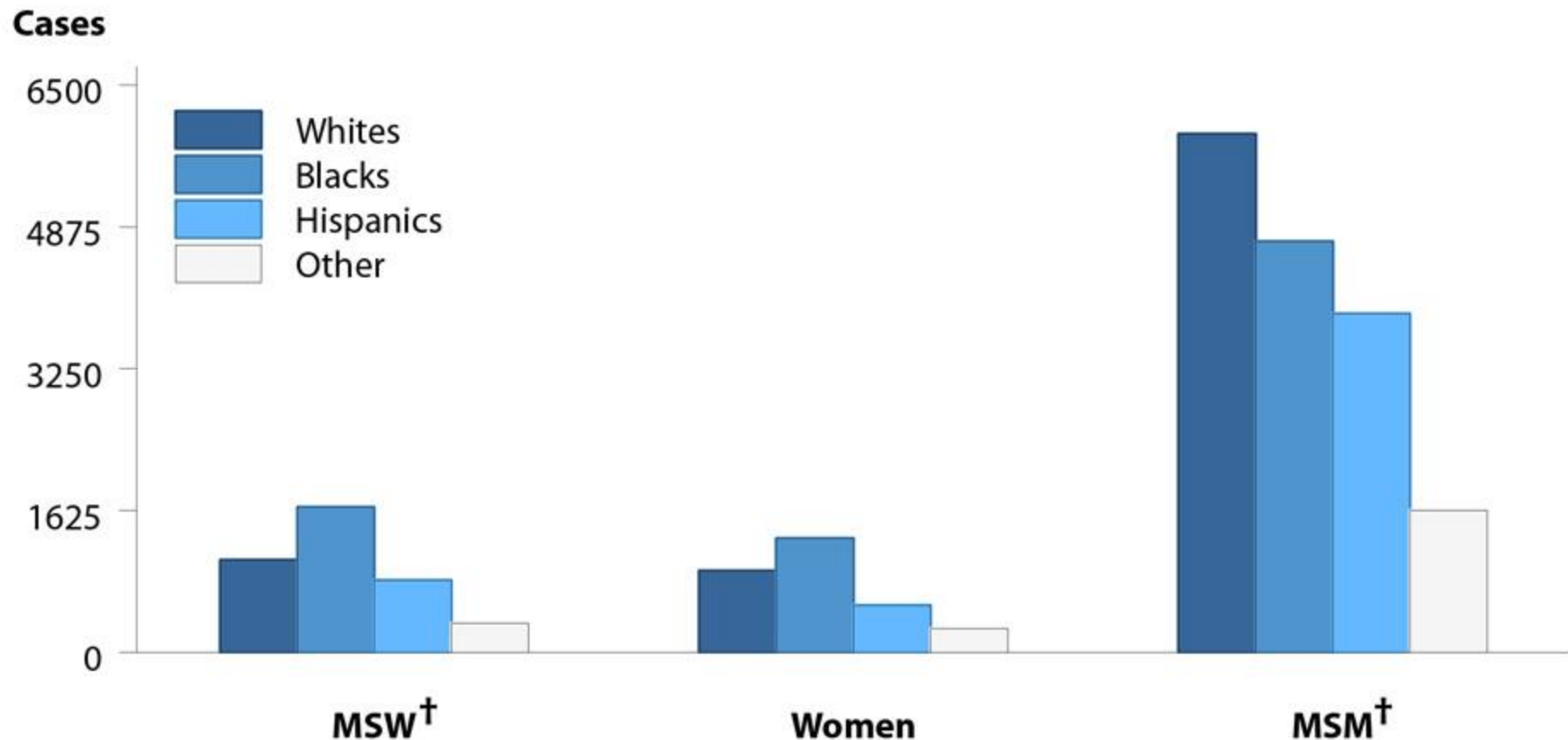
# CDC Released a Syphilis Call to Action



Actions included for

- Pregnant women
- MSM
- Healthcare providers
- Public Health Departments
- Decision-makers
- Community leaders
- Researchers
- EMR developers and vendors

# Primary and Secondary Syphilis — Reported Cases\* by Sex, Sexual Behavior, and Race/Ethnicity, United States, 2016



# CONGENITAL SYPHILIS

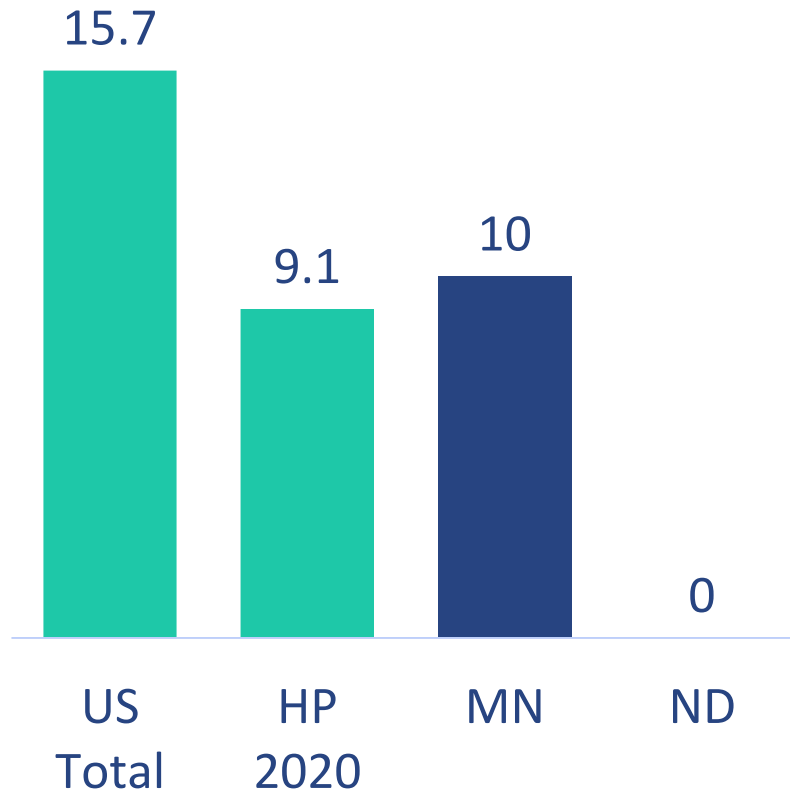




# Congenital Syphilis, 2016



Rate per 100,000 Births



	# Cases	Rank
US Total	628	-
MN	7	19
ND	0	-

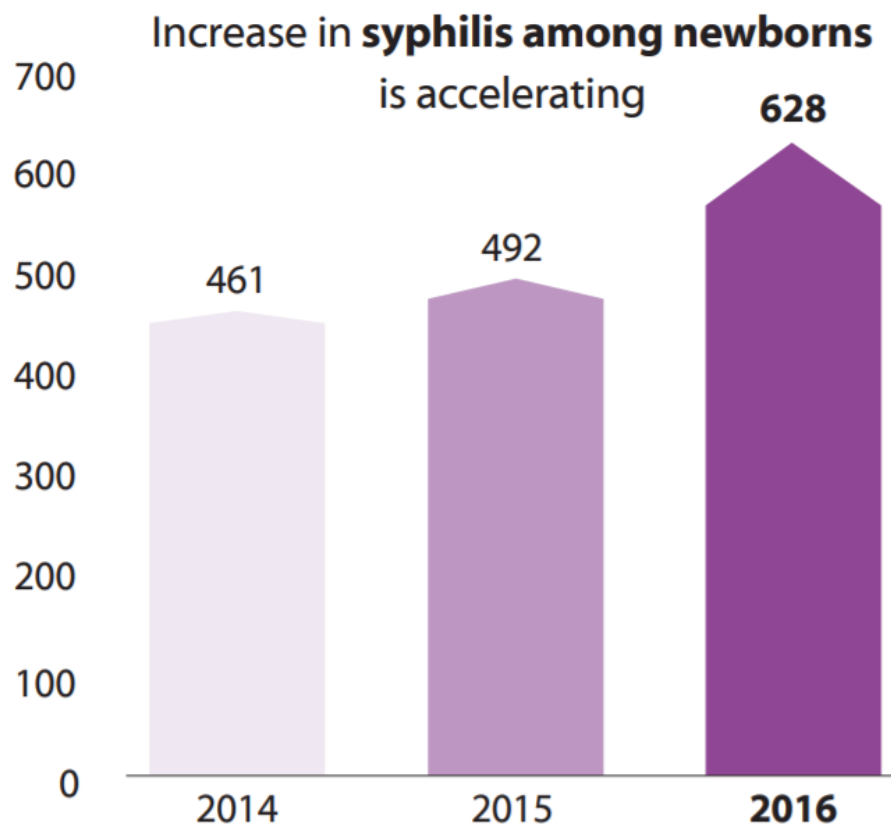
## From 2015 to 2016, rates of syphilis increased:

### Among women

- By 36 percent
- From 1 case per 100,000 women in 2015 to 2 per 100,000 women in 2016

### Among newborns (congenital syphilis)

- By 28 percent
- From 12 cases per 100,000 live births in 2015 to 16 per 100,000 live births in 2016



# Characteristics of Mothers Who Gave Birth to Infants with Congenital Syphilis in the U.S., 2014

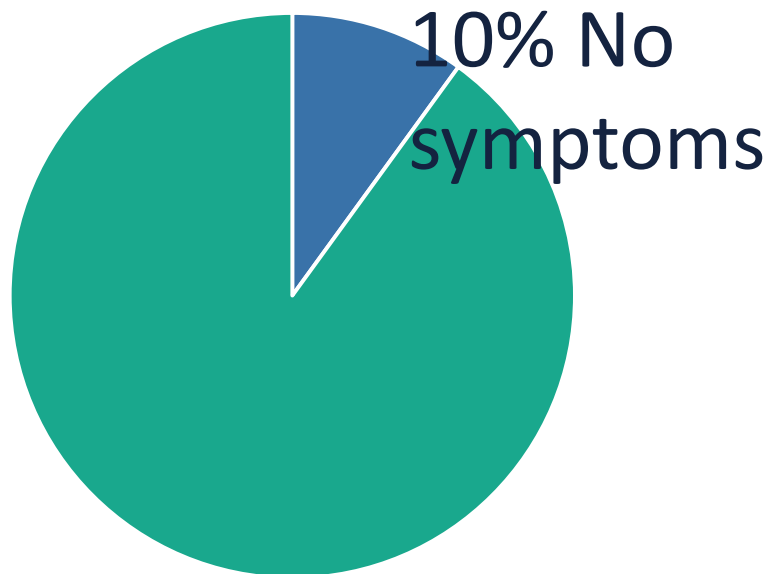
	Number (N=458)	Percent
Did not receive prenatal care	100	21.8%
Received prenatal care (N=314, 68.6%)		
No treatment	135	29.5%
Treated <30 days prior to delivery	78	17.0%
Non-penicillin therapy	3	0.7%
Inadequate regimen for stage	13	2.8%
Adequate treatment	43	9.4%
Unknown treatment status	42	9.2%
Unknown prenatal care status	44	9.6%

# EXTRAGENITAL TESTING

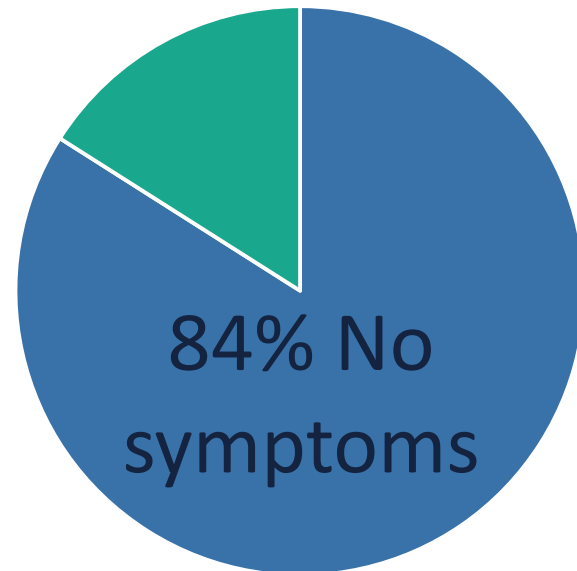


# Most Rectal Gonorrhea Infections in MSM are Asymptomatic

**Urethral  
Infections**



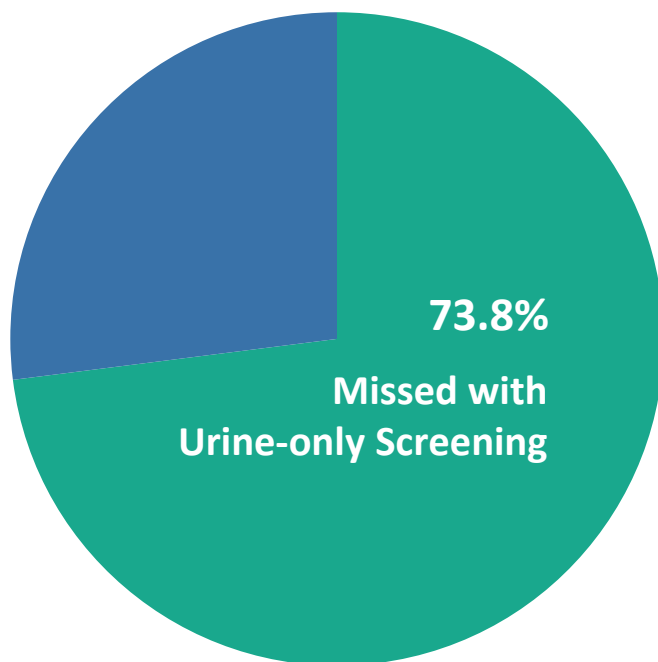
**Rectal  
Infections**



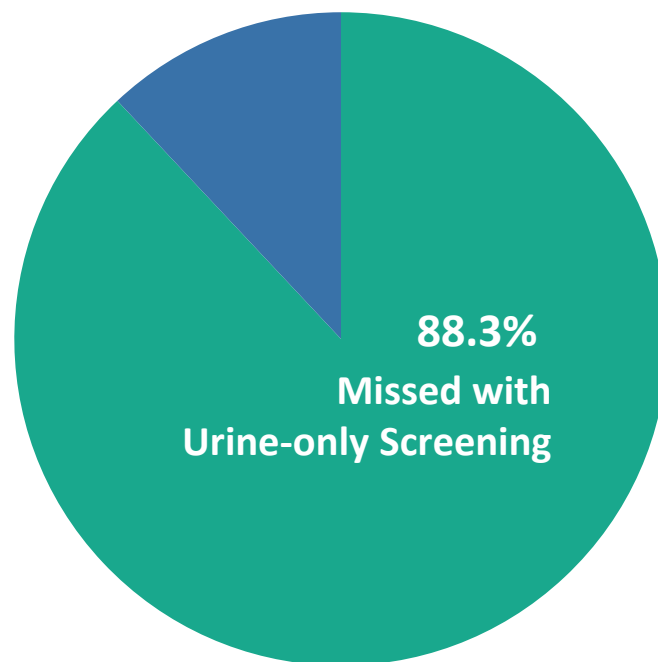
# Proportion of Gonorrhea and Chlamydia Tests Missed with Urethral-only Screening among MSM

*STD Surveillance Network\*, July 2010- June 2012*

**Rectal Gonorrhea**



**Rectal Chlamydia**



*\*STD clinic data for 11 SSuN jurisdictions. Patton, et al. Clin Infect Dis. March 2014*

# Don't forget the “triple dip” for MSM



← HIV/Syphilis/  
HepC Serologies

← Pharyngeal GC NAAT\*

← Urine GC/CT NAAT

← Rectal GC/CT NAAT\*



# STD Diagnosis is an Indication of HIV Risk

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Rectal GC or  
CT



1 in 15 MSM were diagnosed with HIV within 1 year.\*

P&S Syphilis



1 in 18 MSM were diagnosed with HIV within 1 year.\*\*

*\*STD Clinic Patients, New York City. Pathela, CID 2013:57;*

*\*\*Matched STD/HIV Surveillance Data, New York City. Pathela, CID 2015:61*

# STRATEGIES





CONDOMS  
(STILL)  
WORK!



Visit NCSD's  
website to request  
a donation.

[ncsddc.org](http://ncsddc.org)

← → ↺ 🏠 ⓘ www.bhocpartners.org ☆ 🔍 🗨 ⋮

**HOME**

# BHOC

BUILDING HEALTHY ONLINE COMMUNITIES

Public health and app owners working together to support gay men's health.

✕

**Making Your Site Healthier**  
Build features to support your users' health.

---

**Give Users Good Info**  
Cut-and-paste information about sex and health for your users.

---

**Help Users Notify Partners**  
Help users tell their partners they may need to get tested.

---

**For Public Health + Researchers**  
Learn about buying ads, education campaigns, recent research and best practices.

---

**About BHOC**

---

**About This Site**

---

**Contact Information**

## GetTested

National HIV, STD, and Hepatitis Testing

Find Testing Locations

FAQs

Find Free, Fast, and Confidential Testing  
Near You

Enter ZIP Code or City, State

Search

Not Sure What Test You Need?

Answer a few questions and we'll help you.

What is your gender? ⓘ

☒ Male

☐ Female

☐ Transgender

Next

**Include a widget to search  
for STD testing locations  
right on your website!**



```
<iframe  
src="https://www.cdc.gov/std/widgets/widget-  
6.html" name="STDwidget" id="iframe3"  
title="Widget for finding an STD testing site."  
frameborder="0" scrolling="no" height="200"  
width="250" marginheight="0" marginwidth="0"  
style="border:1px solid #ccc;">Find an STD testing  
site near you.</iframe>
```



# IWTK I WANT THE KIT

[ABOUT IWTK](#)[WHAT IS AN STI?](#)[TESTING](#)[RESOURCES](#)[RISK QUIZ](#)

Residents of Maryland, Washington DC, and Alaska can order a kit to collect a sample in the privacy and comfort of their home, then mail it back to be tested for chlamydia, gonorrhea, and trichomonas. It's easy to do and the results are reliable!

[GET THE STI KIT!](#)[GET THE HIV KIT!](#)[ENTER MY RESULTS](#)

If you are interested but not eligible, [register](#)

[Home](#)[Get a Home Test Kit](#)[Get Test Results](#)[Find a Clinic](#)[The Facts](#)[Getting Tested](#)[Getting Treated](#)

## More Questions?

Call (510) 268-2110 or email  
[Alameda@DonThinkKnow.org](mailto:Alameda@DonThinkKnow.org)

Men, click here for more  
information about where to get  
tested and treated for STDs.

[Change Location](#)[EN ESPAÑOL](#)

# I know.

That hooking up can have a downside.

[Know the Facts](#)[About Chlamydia & Gonorrhea](#)[Get a Home Test Kit](#)[A Free, Simple, Private Test](#)[Get Your Test Results](#)[Find a Clinic](#)[FIND IT](#)

**Connections**  
for Student Success

## Developing a Referral System for Sexual Health Services



An Implementation Kit for Education Agencies

Designed by  **CAI** and  **NCSD**  
National Coalition of STD Directors





*Image courtesy Complete Care Community Health Center*

# MSM Sexual Health Standards of Care

Addressing the Sexual Health Crisis among Gay, Bisexual, and Other Men who have Sex with Men (MSM)



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[LESSON PLANS](#)

[PUBLICATIONS BY TOPIC](#)

[Best Practices for Youth Friendly Clinical Services](#)



- Tell them if you've been exposed to an STD - send an anonymous ecard.
- Learn about cures and treatments.
- Find a clinic near you.

Community Guidelines ->

In the News ->



Tell your hookups, ex's, boyfriends, girlfriends, and partners they may have been exposed to an STD.



---Select Country---



SO THEY CAN KNOW

ABOUT US FOR PROVIDERS  
CONTACT US

SEARCH

## Let your partners know they should get tested

Send an anonymous email, contact your health department, or get tips on talking to your partners

GET STARTED +



Feedback



INFORM

Get help notifying your partners.



PROTECT

Protect yourself and your partners.



YOUR RISK

Are you at risk for an STD?



TEST

Get tested and treated.



STD INFO

Learn more about STDs.

# Summary

- STDs are all increasing!
- Pay attention to emerging issues
  - Congenital Syphilis
  - Gonorrhea Resistance
  - Extragenital Testing for MSM and PrEP
- Strategies
  - Health Promotion and Condom Access
  - Linkages to Testing and Competent Care
  - Partner Notification

# Become a Member of NCSD

## Membership Information/Forms

Sign up here to become a member of NCSD.

**[VIEW MEMBERSHIP FORMS | >](#)**





# Join us for the NCSD Annual Meeting



**Save the Date!**

**NCSD 2017  
Annual Meeting**

  
National Coalition of STD Directors  
*Promoting Sexual Health  
Through STD Prevention*

**November 14-17, 2017**  
Washington, DC Capital Area  
*at*  
**The Westin Alexandria**



# What will you do with this information?



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